

AN/PEM-1 Laser Borelight System (LBS)

The Laser Borelight System (LBS) provides the soldier the ability to accomplish precise zeroing of aiming lights, weapon sights, and iron sights on all 5.56 mm, 7.62 mm, .50 caliber weapons and the MK-19 Grenade Machine Gun (GMG) without the need to live fire. It is a rugged projector of a Class II visible laser light that enables the boresighting of weapons during daylight, low light, and darkness.

The major components of the LBS are the Laser Borelight, a 5.56 mm, 7.62 mm, and a .50 caliber mandrel and a set of 38 Boresighting Offset Targets. A mandrel for the MK-19 GMG is an additional authorized item issued based on one mandrel per three MK-19s authorized. A 9mm mandrel is also available as an authorized item to be used with the AN/PEQ-10 Integrated Laser/White Light Pointer (ILWLP) on the M9 pistol.



Performance Characteristics

LBS is used to boresight the following:

- AN/PAS-13 Thermal Weapon Sight (TWS)
- AN/PAQ-4B/C Infrared Aiming Light
- AN/PEQ-2/2A Target Pointer Illuminator Aiming Laser
- Integrated Laser White Light Pointer (ILWLP)
- M68 Close Combat Optic
- M145 Machine Gun Optic
- AN/PSV-4 Individual Crew Served Weapon Sight
- AN/TVS-5 Crew Served Weapon Sight
- Iron sights/backup iron sights
- Other sighting devices attached to weapons systems

